Deck Requirements

Permit Submittal Requirements
Three (3) copies of survey (for all submittals)
- a. Location/dimensions of structure to scale
- b. Distance to the lot lines

Three (3) copies of deck plans:
- a. Top view showing all post spacing, joist length and sizes, beam length and sizes.
- b. Side cut drawing showing details from bottom of post hole to top of guardrail.
- c. Draw to ¼" per foot scale or include all measurements.
- d. Figure 35 – Typical Deck Framing Plan (attached) must be filled out completely.

Deck Codes SPS 321.225
The department has determined that a deck can be built per the following methods effective January 1, 2016:

OPTION 1
SPS 321.225 Decks. (1) Decks attached to dwellings and any detached decks that serve an exit shall comply with the applicable
provisions of subchs. II to X of ch. SPS 321, including all of the following:
(a) Excavation requirements under s. SPS 321.14;
(b) Footing requirements under s. SPS 321.15 (2) (f);
(c) Frost penetration requirements under s. SPS 321.16;
(d) Load requirements under s. SPS 321.02;
(e) Stair, handrail and guard requirements of s. SPS 321.04.
(f) Decay protection requirements of s. SPS 321.10.

OPTION 2
SPS 321.225 **(2)** A deck that complies with the standards in ch. SPS 320-325 Appendix B, and ch. SPS 320-325 Appendix C, if applicable, shall be considered as complying with sub. (1). Meaning, you would follow Appendix B and C exclusively.

OPTION 3
Also, the department has determined that a deck designed and constructed to the DCA6 standard, (Prescriptive Residential Deck Construction Guide-2012 IRC version by The American Would Council,) would be considered code compliant. The decision was based on several factors which included the following:
-Based on prior analysis by the department, the DCA6 standard met or exceeded Wisconsin Uniform Dwelling Code requirements.
-The DCA6 standard is primarily based on NDS standards, which the Department also adopts in SPS 320.24
-Finally, utilizing the DCA6 standard would in fact be considered a form of structural analysis which is accepted under the scope of SPS321.02(2).

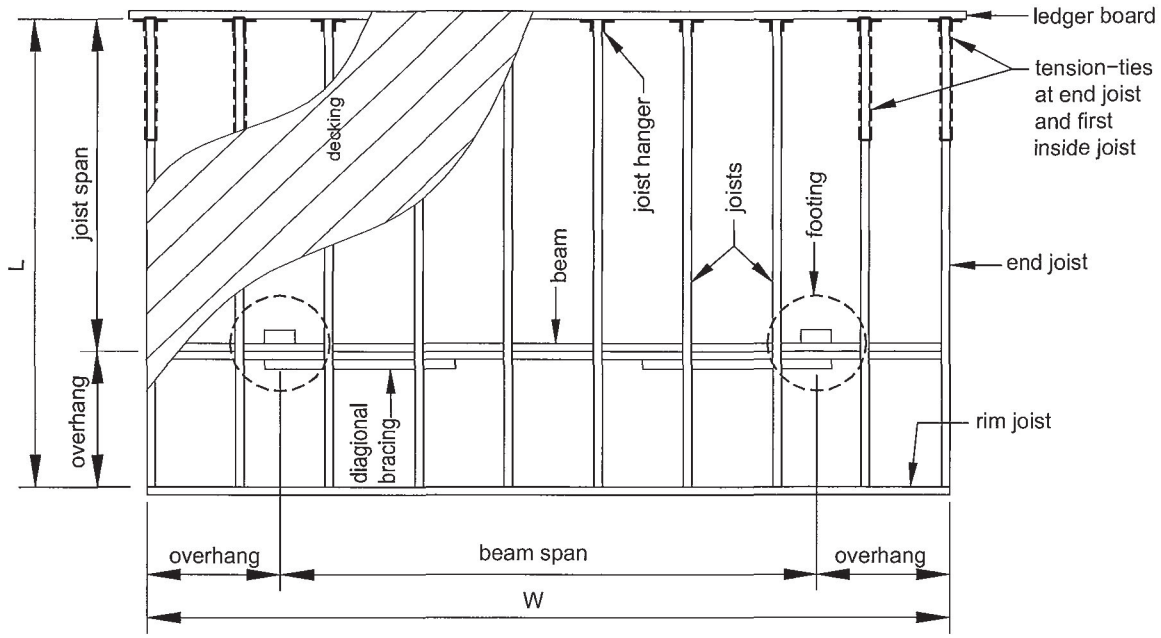
NOTE: You may not "mix and match" the options, meaning take parts from Appendix B then use parts of SPS 321.225(1). If option 1 is used structural analysis shall be provide to the department prior to issuing a building permit.

Link to the State Codes:

SPS 320_325 Appendix B:
http://docs.legis.wisconsin.gov/code/admin_code/sps/safety_and_buildings_and_environment/320_325/325_b

SPS 320_325 Appendix C:
http://docs.legis.wisconsin.gov/code/admin_code/sps/safety_and_buildings_and_environment/320_325/325_c

Figure 35
TYPICAL DECK FRAMING PLAN



Decking: ☐ 2x4 ☐ 2x6 ☐ five–quarter board ☐ wood–plastic composite (per ASTM D 7032)
☐ Other decking, evaluation report number:____

Joists: size: ☐ 2x6 ☐ 2x8 ☐ 2x10 ☐ 2x12 spacing: ☐ 12 in. ☐ 16 in. ☐ 24 in.
joist span dimension: _____ft. – _____in.
overhang: ☐ Yes ☐ No overhang dimension: _____ft. – _____in.
rim joist: ☐ 2x6 ☐ 2x8 ☐ 2x10 ☐ 2x12

Beam(s): number of plies: ☐ 2 ☐ 3 size: ☐ 2x6 ☐ 2x8 ☐ 2x10 ☐ 2x12
overhang: ☐ Yes ☐ No overhang dimension: _____ft. – _____in.

Posts: size: ☐ 4x4 ☐ 4x6 ☐ 6x6 height: _____ft. – _____in.

Footings: size:_____in. ☐ square ☐ round thickness: _____in.

Ledger: ledger board size: ☐ 2x8 ☐ 2x10 ☐ 2x12 ☐ Not applicable (free–standing deck)
fastener: ☐ Through bolt ☐ Lag screw ☐ Wood screw
☐ Expansion anchor ☐ Adhesive anchor

Lateral support: ☐ Tension–tie ☐ Diagonal bracing, size: ☐ 2x
(not permitted for free–standing deck)

Deck size: L=_____ft. – _____in. W=_____ft. – _____in.